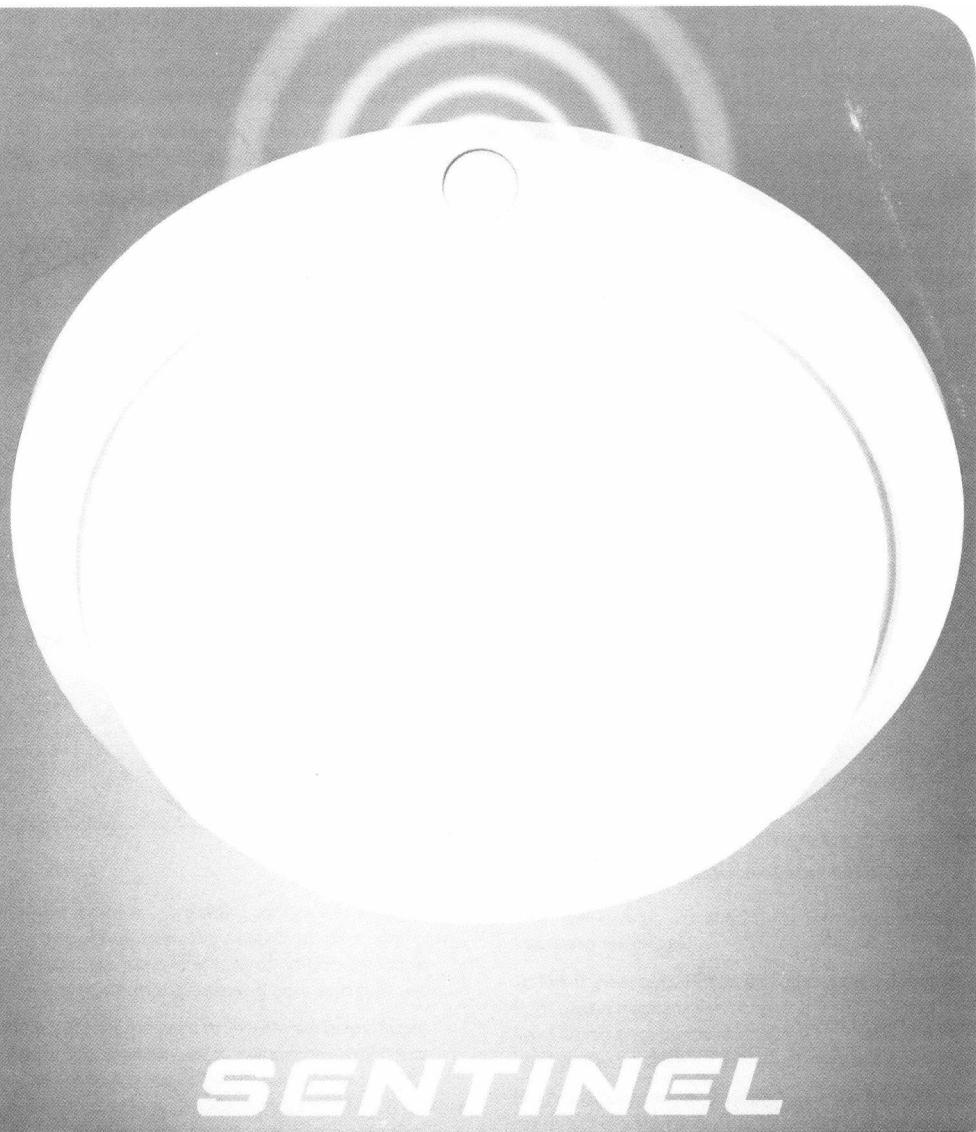


INSTALLATION INSTRUCTIONS

MAL606

ARLEC

MOVEMENT ACTIVATED SECURITY SENSOR LIGHT



IMPORTANT! PLEASE READ THESE INSTRUCTIONS CAREFULLY.

INTRODUCTION

The Arlec MAL606 Sentinel Sensor Light incorporates a PIR (Passive Infra Red) sensing device which continuously scans a preset operating zone and immediately switches the light on when it detects movement in that area.

This means that whenever movement is detected within the range of the sensor the light will switch on automatically to illuminate pathways, steps, patios, porches, or whatever area you have selected to light for reasons of safety, convenience or security.

While there is movement within range of the sensor the light will remain on.

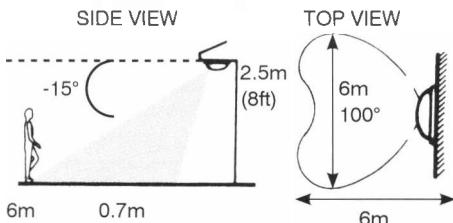
WHERE TO FIT YOUR SENSOR LIGHT

To achieve best results for outside or inside use the Arlec Movement Activated Sensor Light should be mounted on a wall, ceiling or under eaves, often replacing an existing light fitting. The Sensor Light can be mounted directly onto an existing light globe socket (batten holder).

Ideally the Movement Activated Sensor Light should be mounted 1.8 to 2.5 metres (6 to 8ft) above the area to be scanned (refer Fig. 1A).

- To avoid damage to unit - do not aim the sensor towards the sun.

Figure 1A



- To avoid nuisance triggering, the sensor should be directed away from heat sources such as barbecues, airconditioners, other outside lighting, moving cars and flue vents.

Do not aim towards reflective surfaces such as smooth white walls, swimming pools, etc. The Arlec Movement Activated Sensor Light scanning specifications (approximately 6 metres at 100°) may vary slightly depending on the mounting height and location. The detection

Figure 1B

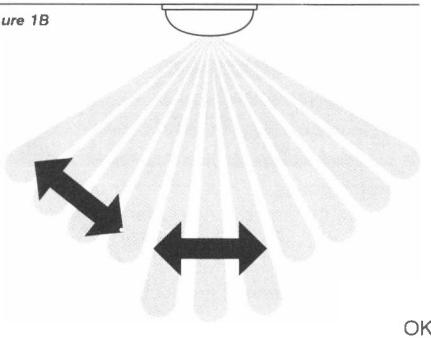
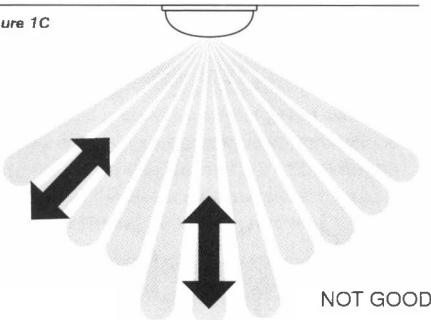


Figure 1C



range of the unit may also alter with temperature change. Before selecting a place to install your Sensor Light you should note that movement across the scan area is more effective than movement directly toward or away from the sensor. (Refer Fig. 1B)

If movement is made walking directly towards or away from the sensor and not across, the a parent detection range will be substantially reduced. (Refer Fig. 1C).

WARNING: The MAL606 Sensor Light is not waterproof and must be installed in a sheltered position.

INSTALLATION

The light can be installed by using either of the following methods.

A. Do it yourself. Fitted directly to an existing light globe socket. First check if your existing light fitting and globe is mounted directly onto a light globe socket.

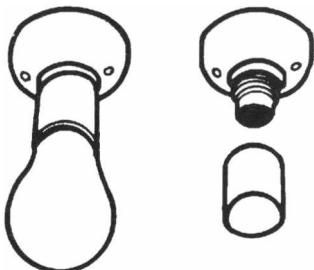
B. Installation by a licensed electrician. Where no existing light globe socket exists, installation must be carried out by a licensed electrician.

A. DO IT YOURSELF INSTALLATION

FITTING THE SENSOR LIGHT TO AN EXISTING LIGHT GLOBE SOCKET

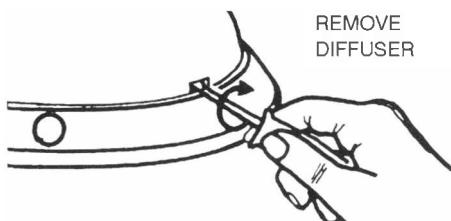
1. Switch power OFF at the meter box and ensure that there is no power to the light globe socket. Simply isolating the electrical supply at the wall switch is not sufficient isolation to prevent an electrical shock.
2. Remove your existing light fitting to expose the light globe and globe socket (batten holder). Check that the light globe socket is attached to a rigid support which cannot move or vibrate. Fix if necessary.
3. Remove the light globe from the light globe socket then unscrew and remove the skirt ring. (Fig. 2)

Fig 2. Light Globe Socket (Batten Holder)



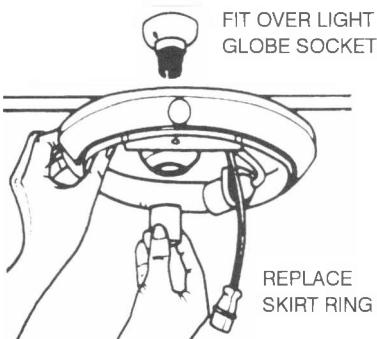
4. Using a wide blade screwdriver remove the diffuser by twisting the screwdriver blade in diffuser slots. (Fig. 3)

Fig 3.



5. Locate the threaded part of the light globe socket through the hole in the base of the Sensor Light. (Fig. 4)
6. Replace the skirt ring (Fig. 4), turn the sensor to face across the direction of approach (Fig. 5), then tighten the skirt ring.

Fig 4.



7. Insert the bayonet plug into your existing light globe socket. For good light diffusion fit a pearl light globe (max. 75 Watt) into the Sensor Light lamp holder. (Fig. 6)

Fig 5.

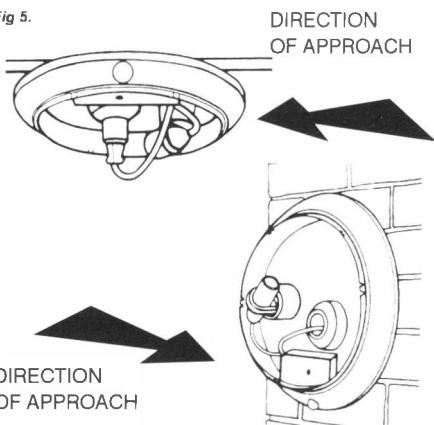
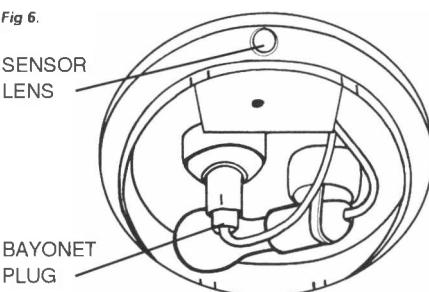


Fig 6.



8. Refer to Page 4 for further operating instructions.

B. INSTALLATION BY A LICENCED ELECTRICIAN

When replacing an existing hard wired light fitting or in new installations where no lighting point exists, the Sensor Light may be screwed to the wall or ceiling at the chosen location. Your electrician could install a new light globe socket which would then allow you to follow steps 1 to 8 in Section A.

CAUTION: Where no existing light globe socket (batten holder) exists, installation must be carried out by a licensed electrician.

NOTES FOR ELECTRICIAN

The Sensor Light should be wired to its own light switch. Do not interconnect with other lights on the same switch.

To hard wire the Sensor Light, cut cable and remove the bayonet plug. Then, using a terminal block or cable connector, join house wiring to the Sensor Light. Ensure that the connector and wiring is not in close proximity to the globe. No earth connection is required.

UNDERSTANDING THE CONTROLS



Sense



Light



Time

SENS - SENSITIVITY ADJUSTMENT

The sensitivity control adjusts the amount of heat that the sensor detects and turns the light ON. Minimum setting detects only large moving heat objects such as cars. Turn knob anticlockwise. Maximum setting small moving objects such as family pets. Turn knob fully clockwise. The mid range setting is probably best for detecting humans. Sensitivity may need to be increased during summer and decreased during winter to ensure adequate detection.

LIGHT - DUSK TURN ON CONTROL

Adjusts the light level at which the sensor light will commence operation. If the control is set to minimum the light will operate during daytime and at night. Use this control to set the unit to daytime operation for testing.

TIME - TIME ON ADJUSTMENT

Varies the length of time the light will stay ON

from about 2 seconds to 3 minutes. Turn knob clockwise to increase ON time. Whilst there is movement within the range of the sensor the light will remain ON. When no further movement is detected, the light will switch OFF after a pre-set time has elapsed.

AUTOMATIC OPERATION

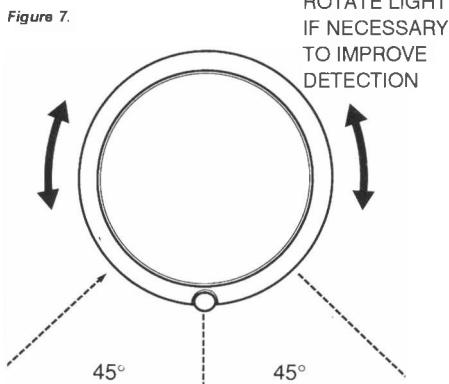
The Sensor Light should always remain in automatic mode whether inside or out as it incorporates a daylight sensor which prevents the light switching on during daylight hours. At dusk or whenever the daylight falls below a certain level the Sensor Light will switch on when movement is detected within its detection area.

TESTING

After installation the Sensor Light should be tested to ensure that good sensitivity is achieved and the light is positioned correctly for the sensor to detect movement from the required area.

1. With the diffuser removed turn the "Light" setting anti-clockwise to MIN.
2. Switch light switch on. The light will stay 'ON' for a short period, then the light will switch 'OFF' provided that there is no movement in the detection area.

Figure 7.



3. Starting from a point more than six metres from Sensor Light, walk into the detection area (Refer Fig. 1A,1B,1C). As you move into the detection area the light will automatically switch 'ON'. If the detection distance is satisfactory, no adjustment is necessary and the light control can be set to the desired setting and the diffuser fitted.

4. If detection is unsatisfactory and unit not detecting in the required area, adjustment can be made by rotating the entire light fitting up to 45° in either direction (See Fig. 8).

5. Repeat walk test as previously described and adjust again if detection is not satisfactory.

6. If necessary, to secure the Sensor Light in its correct position, drive one of the screws provided through one of the holes in its base and into the wall or ceiling behind. The screw should not be overtightened. Care should be taken to avoid drilling or screwing into concealed electrical wiring.

NOTE: The Sensor Light is designed to operate at night time when it is dark, but may also operate during daytime under low light conditions depending upon setting of light function.

MAINTENANCE

To avoid dust build-up and ensure proper functioning of your Sensor Light, wipe the sensor lens lightly with a damp cloth every three months.

Periodically remove light diffuser and clean diffuser inside and out with warm soapy water.

SPECIFICATIONS

Input Voltage	230-240V 50Hz
Power Consumption	75 Watts activated 4 Watts standby
Globe size	75 Watts BC maximum (Pearl recommended)
Detection System	Passive Infra Red (PIR)
Approx. Range	6 metres at 100° scan
Time on Setting	approx 2 minutes max
Weatherproof Rating	IP23

MANUAL OPERATION (AUTOMATIC OVERRIDE)

To override the automatic mode, the light must be switched ON in the "automatic" mode. Now switch your wall switch OFF and back ON within two seconds. Your Sensor Light will now stay on continuously, just like a normal light.

This override function can be selected during daytime or night time.

To return your Sensor Light to the "automatic" mode, switch your wall switch OFF for at least five seconds, then switch it ON again.

To switch your Sensor Light off completely, switch your wall switch OFF.

TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY
Light does not switch ON when there is movement in the detection area.	1. No mains voltage. 2. Globe(s) faulty or missing. 3. Nearby lighting is too bright. 4. Controls set incorrectly. 5. Sensor positioned in wrong direction. 1. Heat sources such as aircon. vents, heater flues, barbecues, other outside lighting, moving cars are activating sensor. 2. Animals/birds e.g. possums or domestic animals. 3. Interference from on/off switching of electric fans or lights on the same circuit as your Sensor Floodlight. (This problem does not always occur but a faulty switch or noisy fluorescent light may cause the Sensor Floodlight to switch on.) 4. Reflection from swimming pool or reflective surface. 5. Interference from power surges, mobile phones, CB's, Taxis, etc.	Check all connections, and fuses/switches. Check. Replace. (a) Adjust sensitivity or relocate unit. (b) Reduce globe wattage in lighting or adjust direction. Re adjust controls. Rotate light. Adjust sensitivity control. Reduce sensitivity. Should the false triggering become troublesome, consider: (A) Replacing a faulty switch. (B) Replacing noisy fluorescent tubes and/or starters. (C) Connecting the Sensor light to a separate circuit. (In most cases where one or more of the above suggestions have been carried out, false triggering has been reduced.) Reduce sensitivity. Try reducing sensitivity. Re-direct sensor (Refer Fig. 3). Try increasing sensitivity. Note: All passive infra red detectors are more sensitive in cold weather than warm weather.
Poor Sensitivity and range.	1. Movement directly to or away from sensor 2. Higher ambient temperature	Re-direct sensor (Refer Fig. 3). Try increasing sensitivity. Note: All passive infra red detectors are more sensitive in cold weather than warm weather.
Light remains ON.	1. Sensor is in Manual Mode. 2. Time adjustment is set too long. 3. Wiring is incorrect.	Switch light OFF for at least 15 seconds, then return to ON position. Reduce time by turning ON-TIME control anti-clockwise. Re check wiring.
Lights switch ON during daylight hours.	Light sensor is covered. Interference by sunlight.	Make sure small transparent window at bottom is uncovered. Re-test at night.
When setting controls in daylight the detection distance becomes shorter.		

Should a problem still exist after following all of the above user hints, contact your place of purchase.

Note: Passive infra red detectors are more sensitive in cold weather than warm weather.

WARRANTY

Arlec guarantees this product in accordance with the Australian Consumer Law.

Arlec also warrants to the original first purchaser of this product ("you") from a retailer that this product will be free of defects in materials and workmanship for a period of 12 months from the date of purchase; provided the product is not used other than for the purpose, or in a manner not within the scope of the recommendations and limitations, specified by Arlec, is new and not damaged at the time of purchase, has not been subjected to abuse, misuse, neglect or damage, has not been modified or repaired without the approval of Arlec and has not been used for commercial purposes ("Warranty").

If you wish to claim on the Warranty, you must, at your own expense, return the product, and provide proof of original purchase and your name, address and telephone number, to Arlec at the address below or the retailer from whom you originally purchased the product within 12 months from the date of purchase.

Arlec will (or authorise the retailer to) assess any claim you may make on the Warranty in the above manner and if, in Arlec's reasonable opinion, the Warranty applies, Arlec will at its own option and expense (or authorise the retailer to) replace the product with the same or similar product or repair the product and return it to you or refund the price you paid for the product. Arlec will bear its own expenses of doing those things, and you must bear any other expenses of claiming on the Warranty.

The Warranty is in addition to other rights and remedies you may have under a law in relation to the product to which the Warranty relates.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law.

You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

ARLEC

Arlec Australia Pty. Ltd. ACN 009 322 105 ("Arlec") gives the Warranty.

Arlec's telephone number, address and email address are:

Customer Service: (03) 9982 5111

Building 3, 31 – 41 Joseph Street, Blackburn North, Victoria, 3130

Blackburn North LPO, P.O. Box 1065, Blackburn North, 3130

Email: custservice@arlec.com.au

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